

Big Island Amateur Radio Club Newsletter

January 2020



Club celebrates at annual Christmas potluck meeting



The tree.

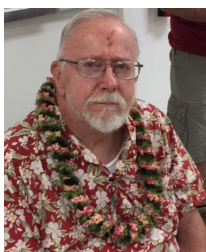
The decorations were as festive as the mood, and the buffet array aromatic and tasty as the club celebrated at its annual Christmas party during the December meeting at the Keaau Community Center.

**Photos by Bob
Schneider, AH6J**

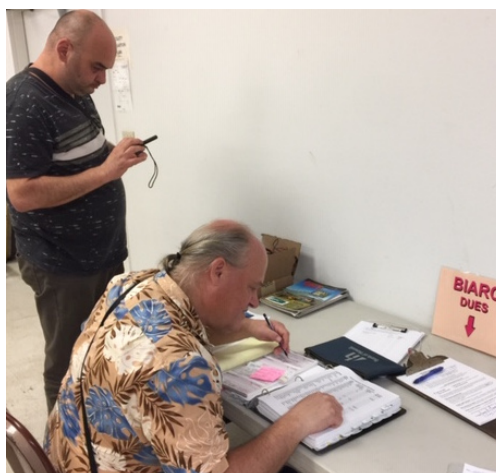


**The
buffet
table.**

**Joe Rosenbaum
and BIARC
Treasurer Tony
Kitchen at the
registration table.**



**Richard
Darling**



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Linda Quarberg, Doug Wilson and Jim Tatar served as Volunteer Examiners for FCC licensing testing in the next room during the Christmas party.

Jimmy Love and his certified rescue assistants, canines Happy and Marley.



January meeting

BIARC's first meeting of the new year will be at 2 p.m. Saturday, January 11, at the Keaau Community Center.

On tap: program on mobile operations by John Bush and Roy Kunishige.

From the coconut wireless

VIP visitor



ARRL Pacific Division Director Jim Tiemstra addresses hams last month in Volcano.

Of interest ...

Winter Field Day

For anyone putting out any info, Winter Field Day for 2020 will be January 25 and January 26 (see winterfeldday.com).

Also on January 25 is the world famous Waimea International Hamfest.

January BIARC meeting will feature a presentation on mobile operations by John Bush and Roy Kunishige.

***FYI,
Mel Uchida, KH6EKD***

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10-10 International Aloha Chapter open to all

Local hams active on 10 meters encourage amateur radio licensees at all levels to join in the fun. [More info on the world of Ten-Ten is available on Facebook and at <https://www.ten-ten.org>]

Monthly Maunakea repeater testing

From: BigIslandRADIO@groups.io on behalf of kevin.bogan@gmail.com

Sent: Friday, January 3, 2020 2:11 PM **Reminder:** Maunakea 146.72- MHz (PL100.0) repeater, WH6FIU, monthly test set for Saturday, 1/4/2020 1200-1300 HST.

To: PacSecARES, HiCoARES, Big Island, KHRC, MKSS, OMKM, DECs, others

We continue to need to ensure the MK repeater is operational.

The repeater will be turned back on at noon for the one hour test, Saturday January 4, 2020, then turned off again. It needs to be tested on a monthly basis (1st Saturday) to insure that it is operational.

Please check in on the Hawaii State VOAD repeater, 146.72 - MHz (PL 100.0 Hz) Maunakea, Saturday, January 4, 1200-1300 HST. When checking in please give your callsign spelled phonetically, your name and location. We will not require power, antenna, rig, etc. information at this time. This is an emcomm repeater, so please use best practices as given by the NCS when operating on the repeater.

This repeater serves the member agencies (e.g., Hawaii County VOAD, American Red Cross, The Salvation Army, Hawaii Pacific Baptist Convention, Team Rubicon, ARES and more) and their partners (e.g., HI-EMA, HCCDA, MEMA, etc.) Please give this notice the widest dissemination. Thanks.

Kevin Bogan, AH6QO

ASM Hawaii State VOAD ARRL/ARES Liaison
Skywarn HAM Radio Coordinator for Hawaii

Update on EmComm related activities in East Hawaii

Aloha,

Thank you for running the VOAD net today (Saturday, 1/4/2020). I just wanted to reach out to you and give an update on EmComm related activities here in East Hawaii. As a member of the Orchidland CERT, ARES, and Chair of the BIARC Public Service Communication Committee I have been working with several groups to develop, coordinate, and exercise our EmComm plans.

We are refining our ICS 217A Communications Resource Availability worksheets, and creating ICS 205 templates for various groups and EmComm scenarios.

The Big Island Amateur radio club is working with Hawaii County Civil Defense on a Memorandum of Understanding to work together. Our East Hawaii CERT leaders are also working together in coordinating repeater and frequency usage. If VOAD develops further guidance on the usage of the Mauna Kea repeater during a declared disaster, I would be in a good position to get the word out.

If an EmComm net were activated on the MK repeater, the NCO would be in a good position to assist groups to find the proper repeater, frequency, and modes needed to communicate with each other. Groups in East Hawaii are already attempting to share this information in advance, but other areas of the island and state may not be in the loop.

I would be happy to share our EmComm documents with you, which you could in turn share with anyone who is likely to be NCO on the MK repeater. In a nutshell, during a major disaster, BIARC/East Hawaii ARES is planning to have an NCO on the Kulani Cone repeater 146.760 MHz, negative offset, PL 100. We may also standup NCO(s) on 146.520 MHz. These net(s) would be used to direct stations to appropriate nets where they can pass EmComm traffic.

If phones and the internet are down, HCCDA will activate the Auxillary Communication Service (ACS) as the gateway for EmComm groups to exchange message traffic via VHF or HF to the Hawaii County EOC using their preapproved SITREP, RFA, and RFI forms. During a less serious event, such as a widespread power outage, East Hawaii ARES and possibly ACS may choose to stand up nets and pass EmComm traffic directly on the Kulani Cone repeater, or one of several backup repeaters.

73,

**Tony Kitchen
WH6DVI**

**Chair, Public Service Communication Committee
2019 BIARC Treasurer**

Melissa Pore, KM4CZN, is 2020 Carole Perry Educator of the Year Award recipient

Melissa Pore, KM4CZN, of Vienna, Virginia, is the 2020 recipient of the Carole Perry Educator of the Year Award, Orlando HamCation has announced.

The award, which recognizes outstanding contributions in educating and advancing youth in amateur radio, was first awarded last year to its namesake, Carole Perry, WB2MGP, in honor of her work teaching students about ham radio.

Pore is an Amateur Radio on the International Space Station (ARISS) Education Committee member and an ambassador for the ARISS program.

An educational professional for more than 20 years, Pore is on the staff at Bishop Denis J. O'Connell High School in Arlington, Virginia, the site of a November 2018 ARISS contact.

In addition to teaching engineering and computer science, she is involved in the school's amateur radio and engineering clubs. While she was a teacher at St. Thomas More Elementary School, Pore was



**Melissa Pore,
KM4CZN**

associated with the STMSAT-1 project.

The Earth-observation CubeSat, built entirely by students at the school, was launched in 2015 but failed to transmit any images. It was the first satellite constructed by elementary schoolers.

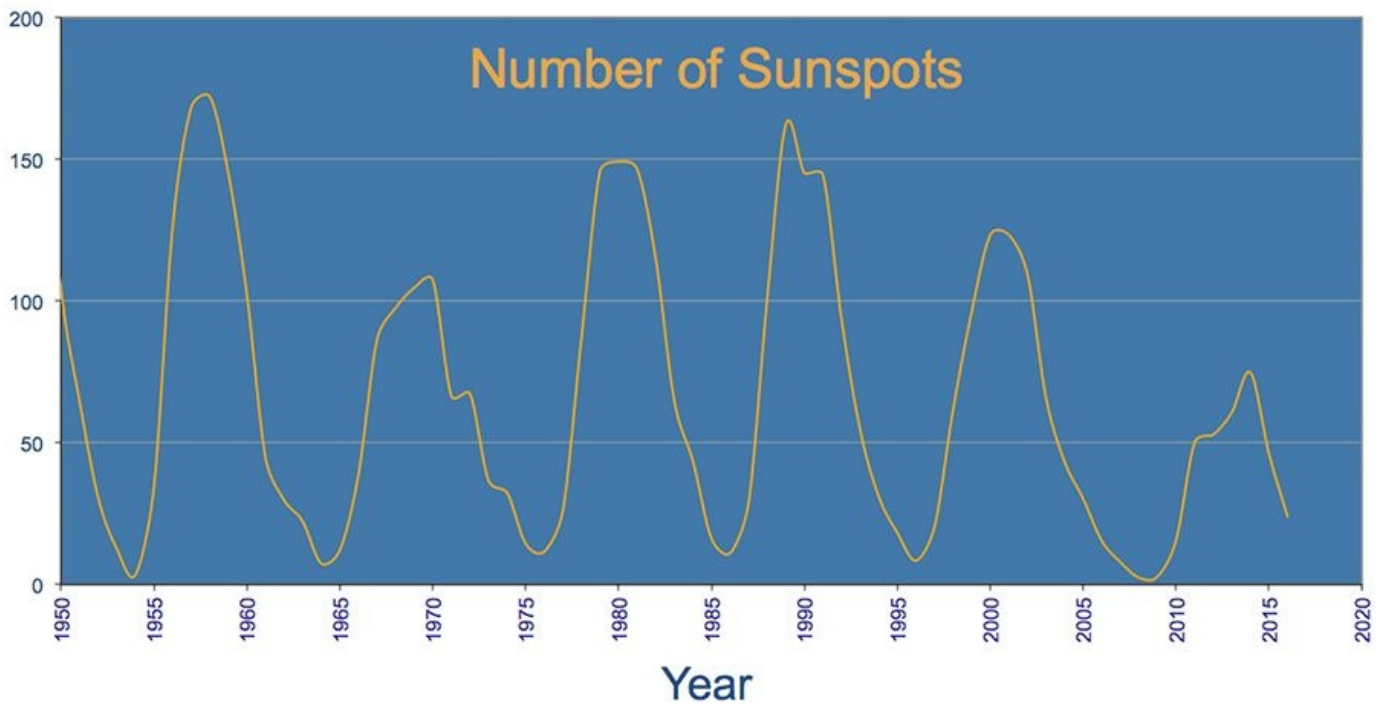
Pore was a co-facilitator of a workshop at the 2019 Space Port Area Conference for Educators. Last year, she and her students presented during Innovation Day at National Air and Space Museum's Steven F. Udvar-Hazy Center.

She is a member of AMSAT and the NASA Goddard Amateur Radio Club. As an ambassador for the ARISS Education Team, her talks and educational outreach have showcased ARISS and

the STEM activities of her students, several of whom are radio amateurs.

She assisted with the Dayton Hamvention 2019 ARISS booth and helped staff the exhibit at the Space Explorers Education Conference last February in Houston, where she's set to present a workshop in 2020.

At the 2019 Space Port Area Conference for Educators at Cape Kennedy, Pore received a plaque from the ISS National Lab Space Station Explorer Program citing her "service, commitment, and desire to push the boundaries of STEM Education."



NOAA/NASA panel concurs: Solar Cycle 25 will peak in July 2025

The international Solar Cycle Prediction Panel has released its latest forecast for the coming Solar Cycle 25. The panel is co-chaired by NOAA and NASA.

The panel's consensus calls for a peak in July 2025 (± 8 months), with a smoothed sunspot number of 115. The panel agreed that Cycle 25 will be of average intensity and similar to Cycle 24.

The panel agrees the solar minimum between Cycles 24 and 25 will occur in April 2020 (± 6 months), making Solar Cycle 24 the seventh longest on record at 11.4 years.

In its preliminary forecast released last April, the scientists on the panel forecast that Solar Cycle 25 would likely be

This graph shows the number of sunspots counted each year for several decades. Notice how the sunspot count rises and falls in an 11-year cycle.

(Credit: UCAR SciEd (Randy Russell) using data from NOAA's NGDC)

This material is based upon work supported by the National Center for Atmospheric Research, a major facility sponsored by the National Science Foundation and managed by the University Corporation for Atmospheric Research.

weak, much like the current Cycle 24.

"Solar Cycle 25 may have a slow start, but is anticipated to peak with solar maximum occurring between 2023 and 2026, and a sunspot range of 95 to 130. This is well below the average number of sunspots," the panel said last spring, adding with "high confidence" that Cycle 25 "should break the trend of weakening solar activity seen over the past four cycles."

The panel said the expectation that Cycle 25 would be comparable in size to Cycle 24 suggests that the steady decline in solar cycle amplitude seen from Cycle 21 through Cycle 24 has ended

and that there is no indication of an approaching "Maunder-type" minimum.

Cycle 24 peaked in April 2014 with an average sunspot number of 82.

The panel forecasts the number of sunspots expected for solar maximum, along with the timing of the peak and minimum solar activity levels for the cycle. It is comprised of scientists representing NOAA, NASA, the International Space Environment Services, and other US and international scientists.